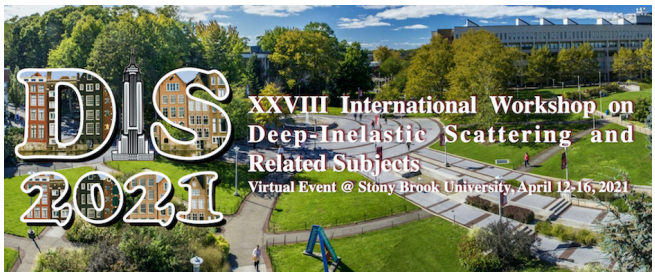

Contribution ID: **656** Type: **Contributed Talk**

Dark Matter searches with the ATLAS Detector

Wednesday, 14 April 2021 12:33 (15 minutes)

The presence of a non-baryonic dark matter (DM) component in the Universe is inferred from the observation of its gravitational interaction. If dark matter interacts weakly with the Standard Model (SM) it could be produced at the LHC. The ATLAS experiment has developed a broad search program for DM candidates, including resonance searches for the mediator which would couple DM to the SM. The results of recent searches on 13 TeV pp data, their interplay and interpretation will be presented. Prospects for HL-LHC will also be discussed.

Presenter: FRATTARI, Guglielmo (Sapienza Universita e INFN, Roma 1 (IT))

Session Classification: Electroweak Physics and Beyond the Standard Model

Track Classification: Electroweak Physics and Beyond the Standard Model